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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,442	07/22/2003	Brian D. Morrison	07206/084001	6413

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JOHN A. MOLNAR, JR.
PARKER-HANNIFIN CORPORATION
6035 PARKLAND BOULEVARD
CLEVELAND, OH 44124-4141

EXAMINER	
VO, HIEN XUAN	
ART UNIT	PAPER NUMBER
2863	

MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/624,442	MORRISON ET AL.	
	Examiner	Art Unit	
	HIEN X. VO	2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 April 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20,22-25 and 27-35* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20,22-25 and 27-35* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *22 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 04/28/08 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent No. 6,600,972 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claims 1-20, 22-25, 27-33 rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-33 of prior U.S. Patent No. 6,600,972. This is a double patenting rejection.

Application Ser. No. 10/624,442	Patent No. 6,600,972
1. A system comprising: an electro-statically shielded enclosure, at least one processor external to the enclosure, at least one processor disposed in the enclosure, and, at least one dielectric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure.	1. A system comprising: an electro-statically shielded enclosure, at least one processor external to the enclosure, at least one processor disposed in the enclosure, and, at least one dielectric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure.
2. A system according to claim 1, further including:	2. A system according to claim 1, further including:

at least one energy source external to the enclosure, at least one power supply disposed in the enclosure, at least one dielectric media to couple the energy source external to the enclosure and the at least one power supply disposed in the enclosure.	at least one energy source external to the enclosure, at least one power supply disposed in the enclosure, at least one dielectric media to couple the energy source external to the enclosure and the at least one power supply disposed in the enclosure.
3. A system according to claim 2, wherein the at least one power supply disposed in the enclosure is in communications with the at least one processor disposed in the enclosure.	3. A system according to claim 2, wherein the at least one power supply disposed in the enclosure is in communications with the at least one processor disposed in the enclosure.
4. A system according to claim 2, wherein the at least one energy source is a laser.	4. A system according to claim 2, wherein the at least one energy source is a laser.
5. A system according to claim 2, wherein the at least one power supply disposed in the enclosure is a laser energy power converter.	5. A system according to claim 2, wherein the at least one power supply disposed in the enclosure is a laser energy power converter.
6. A system according to claim 2, wherein the at least one dielectric media to couple the at least one energy source external to the enclosure and the at least one power supply disposed in the enclosure includes a fiber optic cable.	6. A system according to claim 2, wherein the at least one dielectric media to couple the at least one energy source external to the enclosure and the at least one power supply disposed in the enclosure includes a fiber optic cable.
7. A system according to claim 1, wherein the at least one dielectric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure includes a fiber optic cable.	11. A system according to claim 1, wherein the at least on electric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure includes a fiber optic cable.
8. A system according to claim 1, wherein the at least one processor disposed in the enclosure includes at least one of a media access controller, a network processor, and an applications processor.	8. A system according to claim 1, wherein the at least one processor disposed in the enclosure includes at least one of a media access controller, a network processor, and an applications processor.
9. A system according to claim 1, further including a transceiver disposed in the enclosure, the transceiver in communications with the at least one processor disposed in the enclosure.	9. A system according to claim 1, further including a transceiver disposed in the enclosure, the transceiver in communications with the at least one processor disposed in the enclosure.
10. A system according to claim 1, further including at least one photo-diode to interface between the at least one processor external to the enclosure and the at least one processor disposed in the enclosure.	10. A system according to claim 1, further including at least one photo-diode to interface between the at least one processor external to the enclosure and the at least one processor disposed in the enclosure.
11. A system according to claim 2, further including a power monitor disposed in the enclosure, the power monitor in communications with the at least one processor disposed in the enclosure, and the power monitor in communications with the power supply disposed in the enclosure.	7. A system according to claim 2, further including a power monitor disposed in the enclosure, the power monitor in communications with the at least one processor disposed in the enclosure, and the power monitor in communications with the power supply disposed in the enclosure.
12. A system according to claim 1, further including a first connector and a second connector, wherein the first connector and the second connector are mated, and wherein the first connector is mounted to the enclosure, and the second connector is mounted external to the enclosure to provide an electrical connection to a sensor.	12. A system according to claim 1, further including a first connector and a second connector, wherein the first connector and the second connector are mated, and wherein the first connector is mourned to the enclosure, and the second connector is mounted external to the enclosure to provide an electrical connection to a sensor.
13. A system according to claim 12, wherein the second connector is mounted to a fuel tank, and the sensor is a fuel sensor.	13. A system according to claim 12, wherein the second connector is mounted to a fuel tank, and the sensor is a fuel sensor.
14. A system according to claim 12, wherein the first connector is in communications with the at least one processor disposed in the enclosure.	14. A system according to claim 12, wherein the first connector is in communications with the at least one processor disposed in the enclosure.
15. A system for measuring fuel, the system comprising: an electro-statically shielded enclosure, at least one processor disposed in the enclosure, a fuel tank, and,	15. A system for measuring fuel, the system comprising: an electro-statically shielded enclosure, at least one processor disposed in the enclosure, a fuel tank, and,

a fuel sensor in communications with the fuel tank and the at least one processor disposed in the enclosure.	a fuel sensor in communications with the fuel tank and the at least one processor disposed in the enclosure.
16. A system according to claim 15, further including: a first connector mounted to the enclosure and in communications with the at least one processor disposed in the enclosure, and, a second connector mounted to the fuel tank, the second connector mated to the first connector, the second connector in communications with the fuel sensor, and,	16. A system according to claim 15, further including: a first connector mounted to the enclosure and in communications with the at least one processor disposed in the enclosure, and, a second connector mounted to the fuel tank, the second connector mated to the first connector, the second connector in communications with the fuel sensor.
17. A system according to claim 15, wherein the fuel tank is an aluminum fuel tank.	20. A system according to claim 15, wherein the fuel tank is an aluminum fuel tank.
18. A system according to claim 15, wherein the fuel sensor includes a variable capacitance transducer.	18. A system according to claim 15, wherein the fuel sensor includes a variable capacitance transducer.
19. A system according to claim 15, further including at least one power supply disposed in the enclosure.	19. A system according to claim 15, further including at least one power supply disposed in the enclosure.
20. A system according to claim 15, further including a signal conversion device to accept an input from the first connector and provide an output to the at least one processor disposed in the enclosure.	17. A system according to claim 16, further including a signal conversion device to accept an input from the first connector and provide an output to the at least one processor disposed in the enclosure.
22. A system according to claim 15, further including: at least one processor external to the enclosure, and, at least one dielectric media to couple the processor external to the enclosure and the at least one processor disposed in the enclosure.	26. A system according to claim 15, further including: at least one processor external to the enclosure, and, at least one dielectric media to couple the processor external to the enclosure and the at least one processor disposed in the enclosure.
23. A system according to claim 15, further including: at least one energy source external to the enclosure, at least one power supply disposed in the enclosure, at least one dielectric media to couple the at least one energy source external to the enclosure and the at least one power supply disposed in the enclosure.	22. A system according to claim 15, further including: at least one energy source external to the enclosure, at least one power supply disposed in the enclosure, at least one dielectric media to couple the at least one energy source external to the enclosure and the at least one power supply disposed in the enclosure.
24. A system according to claim 23, wherein the energy source is a laser.	23. A system according to claim 22, wherein the energy source is a laser.
25. A system according to claim 23, wherein the at least one power supply disposed in the enclosure is a laser energy power converter.	24. A system according to claim 22, wherein the at least one power supply disposed in the enclosure is a laser energy power converter.
27. A system according to claim 23, wherein the at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure includes a fiber optic cable.	25. A system according to claim 22, wherein the at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure includes a fiber optic cable.
28. A system according to claim 22, wherein the at least one dielectric media to couple the at least one processor and the at least one processor disposed in the enclosure includes a fiber optic cable.	27. A system according to claim 21, wherein the at least one dielectric media to couple the at least one processor and the at least one processor disposed in the enclosure includes a fiber optic cable.
29. A system according to claim 15, wherein the enclosure is mounted to the fuel tank.	21. A system according to claim 15, wherein the enclosure is mounted to the fuel tank.
30. A method for providing a measurement from a fuel tank, the method comprising: providing an electro-statically shielded enclosure including at least one processor disposed in the enclosure, providing at least one processor external to the enclosure, providing a fuel tank sensor in communications with the fuel tank and the at least one processor disposed in the enclosure, and, providing at least one dielectric media to couple the at least one processor external to the enclosure and the at least one	28. A method for providing a measurement from a fuel tank, the method comprising: providing an electro-statically shielded enclosure including at least one processor disposed in the enclosure, providing at least one processor external to the enclosure, providing a fuel tank sensor in communications with the fuel tank and the at least one processor disposed in the enclosure, and, providing at least one dielectric media to couple the at least

processor disposed in the enclosure. 31. A method according to claim 30, further including: providing at least one energy source external to the enclosure, providing at least one power supply disposed in the enclosure, the at least one power supply in communications with the at least one processor disposed in the enclosure, and, providing at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure. 32. A method according to claim 30, wherein providing at least one dielectric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure includes providing a fiber optic cable. 33. A method according to claim 31, wherein providing at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure includes providing a fiber optic cable. 34. A method according to claim 30, wherein providing a fuel tank sensor in communications with the fuel tank and the at least one processor disposed in the enclosure, includes: providing a first connector mounted to the enclosure and in communications with the at least one processor disposed in the enclosure, providing a second connector mounted to the fuel tank, the second connector in communications with the fuel tank sensor and the second connector mated to the first connector. 35. A method according to claim 31, further including providing a power monitor in communications with the at least one power supply and the at least one processor disposed in the enclosure.	one processor external to the enclosure and the at least one processor disposed in the enclosure. 29. A method according to claim 28, further including: providing at least one energy source external to the enclosure, providing at least one power supply disposed in the enclosure, the at least one power supply in communications with the at least one processor disposed in the enclosure, and, providing at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure. 33. A method according to claim 28, wherein providing at least one dielectric media to couple the at least one processor external to the enclosure and the at least one processor disposed in the enclosure includes providing a fiber optic cable. 30. A method according to claim 29, wherein providing at least one dielectric media to couple the at least one energy source and the at least one power supply disposed in the enclosure includes providing a fiber optic cable. 32. A method according to claim 28, wherein providing a fuel tank sensor in communications with the fuel tank and the at least one processor disposal in the enclosure, includes: providing a first connector mounted to the enclosure and in communications with the at least one processor disposed in the enclosure, providing a second connector mounted to the fuel tank, the second connector in communications with the fuel tank sensor and the second connector mated to the first connector. 31. A method according to claim 29, further including providing a power monitor in communications with the at least one power supply and the at least one processor disposed in the enclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HIEN X. VO whose telephone number is (571)272-2282. The examiner can normally be reached on M-F (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael P. Nghiem/
Primary Examiner, GAU 2863

Hien Vo
10/02/08